Table R-7: 1994 Key Source Tier 1 Analysis - Level Assessment

| IPCC Source Categories | Direct Greenhouse Gas | Base Year Estimate (Tg $CO_2$ Eq.) | Current Year Estimate (Tg $CO_2$ Eq.) | Level Assessment | Cumulative Total |
|---|---|---|---|---|---|
| $CO_2$ Emissions from Stationary Combustion - Coal | $CO_2$ | 1,697.29 | 1,787.57 | 0.28 | 0.28 |
| Mobile Combustion: Road & Other | $CO_2$ | 1,244.98 | 1,325.10 | 0.21 | 0.48 |
| $CO_2$ Emissions from Stationary Combustion - Gas | $CO_2$ | 976.63 | 1,084.55 | 0.17 | 0.65 |
| $CO_2$ Emissions from Stationary Combustion - Oil | $CO_2$ | 669.99 | 663.32 | 0.10 | 0.75 |
| $CH_4$ Emissions from Solid Waste Disposal Sites | $CH_4$ | 212.07 | 216.99 | 0.03 | 0.79 |
| Direct $N_2O$ Emissions from Agricultural Soils | $N_2O$ | 193.71 | 215.47 | 0.03 | 0.82 |
| Mobile Combustion: Aviation | $CO_2$ | 176.88 | 175.85 | 0.03 | 0.85 |
| Fugitive Emissions from Natural Gas Operations | $CH_4$ | 122.01 | 128.07 | 0.02 | 0.87 |
| $CH_4$ Emissions from Enteric Fermentation in Domestic Livestock | $CH_4$ | 117.85 | 120.40 | 0.02 | 0.89 |
| Indirect $N_2O$ Emissions from Nitrogen Used in Agriculture | $N_2O$ | 73.83 | 80.26 | 0.01 | 0.90 |
| $CO_2$ Emissions from Iron and Steel Production | $CO_2$ | 85.41 | 73.61 | 0.01 | 0.91 |
| Fugitive Emissions from Coal Mining and Handling | $CH_4$ | 87.12 | 70.32 | 0.01 | 0.92 |
| Mobile Combustion: Road & Other | $N_2O$ | 48.56 | 58.27 | 0.01 | 0.93 |
| Mobile Combustion: Marine | $CO_2$ | 48.60 | 48.89 | 0.01 | 0.94 |
| $CO_2$ Emissions from Cement Production | $CO_2$ | 33.28 | 36.09 | 0.01 | 0.94 |
| $CH_4$ Emissions from Manure Management | $CH_4$ | 31.28 | 35.46 | 0.01 | 0.95 |
| $SF_6$ Emissions from Electrical Equipment | $SF_6$ | 32.10 | 32.43 | 0.01 | 0.95 |
| HFC-23 Emissions from HCFC-22 Manufacture | HFCs | 34.98 | 31.59 | <0.01 | 0.96 |
| $CH_4$ Emissions from Wastewater Handling | $CH_4$ | 24.08 | 26.00 | <0.01 | 0.96 |
| Fugitive Emissions from Oil Operations | $CH_4$ | 27.49 | 24.61 | <0.01 | 0.97 |
| $CO_2$ Emissions from Ammonia Production and Urea Application | $CO_2$ | 19.31 | 21.10 | <0.01 | 0.97 |
| $N_2O$ Emissions from Nitric Acid Production | $N_2O$ | 17.85 | 19.60 | <0.01 | 0.97 |
| $CO_2$ Emissions from Waste Incineration | $CO_2$ | 14.07 | 17.77 | <0.01 | 0.98 |
| $N_2O$ Emissions from Manure Management | $N_2O$ | 16.18 | 16.90 | <0.01 | 0.98 |
| $N_2O$ Emissions from Adipic Acid Production | $N_2O$ | 15.20 | 15.03 | <0.01 | 0.98 |
| $N_2O$ Emissions from Wastewater Handling | $N_2O$ | 12.71 | 14.02 | <0.01 | 0.98 |
| Non-$CO_2$ Emissions from Stationary Combustion | $N_2O$ | 12.52 | 13.10 | <0.01 | 0.98 |
| PFC Emissions from Aluminum Production | PFCs | 18.11 | 12.17 | <0.01 | 0.99 |
| $CO_2$ Emissions from Lime Production | $CO_2$ | 11.24 | 12.05 | <0.01 | 0.99 |
| Emissions from Substitutes for Ozone Depleting Substances | Several | 0.94 | 8.38 | <0.01 | 0.99 |
| $CH_4$ Emissions from Rice Production | $CH_4$ | 7.12 | 8.21 | <0.01 | 0.99 |
| Non-$CO_2$ Emissions from Stationary Combustion | $CH_4$ | 8.14 | 8.12 | <0.01 | 0.99 |
| $CO_2$ Emissions from Natural Gas Flaring | $CO_2$ | 5.51 | 6.62 | <0.01 | 0.99 |
| $CO_2$ Emissions from Limestone and Dolomite Use | $CO_2$ | 5.47 | 5.56 | <0.01 | 0.99 |
| $SF_6$ Emissions from Magnesium Production | $SF_6$ | 5.37 | 5.38 | <0.01 | 0.99 |
| $CO_2$ Emissions from Aluminum Production | $CO_2$ | 6.31 | 5.15 | <0.01 | 1.00 |
| Mobile Combustion: Road & Other | $CH_4$ | 4.73 | 4.70 | <0.01 | 1.00 |

| | | | | | |
|---|---|---|---|---|---|
| $N_2O$ Emissions from $N_2O$ Product Usage | $N_2O$ | 4.30 | 4.48 | <0.01 | 1.00 |
| $CO_2$ Emissions from Soda Ash Manufacture and Consumption | $CO_2$ | 4.14 | 4.02 | <0.01 | 1.00 |
| PFC, HFC, and $SF_6$ Emissions from Semiconductor Manufacture | $SF_6$ | 2.86 | 3.93 | <0.01 | 1.00 |
| $CO_2$ Emissions from Ferroalloys | $CO_2$ | 1.98 | 1.85 | <0.01 | 1.00 |
| Mobile Combustion: Aviation | $N_2O$ | 1.71 | 1.71 | <0.01 | 1.00 |
| $CO_2$ Emissions from Titanium Dioxide Production | $CO_2$ | 1.31 | 1.67 | <0.01 | 1.00 |
| $CH_4$ Emissions from Petrochemical Production | $CH_4$ | 1.17 | 1.48 | <0.01 | 1.00 |
| $CO_2$ Emissions from $CO_2$ Consumption | $CO_2$ | 0.90 | 1.04 | <0.01 | 1.00 |
| $CH_4$ Emissions from Agricultural Residue Burning | $CH_4$ | 0.68 | 0.81 | <0.01 | 1.00 |
| $N_2O$ Emissions from Agricultural Residue Burning | $N_2O$ | 0.37 | 0.45 | <0.01 | 1.00 |
| Mobile Combustion: Marine | $N_2O$ | 0.36 | 0.41 | <0.01 | 1.00 |
| $CO_2$ Emissions from Stationary Combustion - Geothermal Energy | $-CO_2$ | 0.40 | 0.34 | <0.01 | 1.00 |
| $N_2O$ Emissions from Waste Incineration | $N_2O$ | 0.29 | 0.27 | <0.01 | 1.00 |
| Mobile Combustion: Aviation | $CH_4$ | 0.16 | 0.15 | <0.01 | 1.00 |
| Mobile Combustion: Marine | $CH_4$ | 0.07 | 0.08 | <0.01 | 1.00 |
| $CH_4$ Emissions from Silicon Carbide Production | $CH_4$ | 0.03 | 0.02 | <0.01 | 1.00 |
| **TOTAL** | | **6,139.64** | **6,451.41** | **1.00** | |

Note: Sinks (e.g., LUCF, Landfill Carbon Storage) are not included in this analysis.